### "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826020013-9

Tressure Island Hibliographical Report aTa 237 - I 0:31 Ma.: Tilbl. 49 BCCT PHONENTENN, L. A., BRUSYANTONY, T. U., MACHINEAYA, L. T., Authors: GROSOVORIY, T. C., KENNERSNIC, G. V., KRICHETSKIT, L. L., and LEVIII. D. K. Full Title: AUTOMOBILE TRANSPORTATION LANDSONK (2nd Revise) Bullion) Trunsliterated Title: Autotransportagy sor vecinity Publiching Onto Originating Agency: None Publishing Tours: State Scientific and Technical Publishing House of Literature on Machine Building No. enviso: 52,000 Date: 1903 No.pp.: 390 Editorial Staff Tech. Ed.: Tone Eliter: Afanas'yev, L. L., Cand. Techn. Sci. Apprecisers (lot edition): Ed, -in-Caief: Broksh, V. V., Eng. Yefremov, Y. V. and Amakov, F. F., Eng. Text Date Coverage: The handbook contains technical information on inspection, servicing and remain of Soviet mannenger cars, busees, truste, and trailers. Questions of garage planning, management, and accounting are discussed and illustrated with numerical examples. Characteristics and specificutions are given for materials and parts used in servicing and

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Covers \*(ecat.):

rem in, such as fuels (gracilines, diesel fuels, errorlii fuels for cas penerators), babricats, antifractor, and broke signific. Materials for auto carts and tools, their thermal treatment, allemable electroness, and teleromes in moving parts are discussi. The in labour cattines bute characteristics of automobiles, busines and true'r, businessities of automobiles. ments, and leceribes metacin of whater store or, store or weather some noments for stortles, etc.

The book may be of interest from the class but of leferenties or the consent and technical management of Soviet are while to apportation.

Furnous: This handbook is prepared for an Engarine and bounded segment in sutemobile transportation.

Weelitties: The inselbed wer revised in ancertace with new instructions and All-Union State Standards (GCTT) and results of the war out the Control Scientific Rescued Institute of Automotion Proposestation (Tsillian) and other research and load a one lattices. We mailteration were also given to descent and our estions expensed by the Harrys Section of the All-Union Scientific and order and Technical Receiety of Machine Building (V ITCHACh).

No. Sunction and Clayle References: 8(129-50)

avillable: Throny of Congress

#### KRAMARENKO G.V.

Gutting off non-ferrous casting gates. Lit.proizv. no.7:30 0 154. (Founding) (MLRA 7:12)

[Motor transport manual] Avtotransportnyi spravochnik. Izd.3-e, ispr. i dop. Pod obshchei red.L.L.Afanas'eva. Moskva, Gos.nauchnotekhn. izd-vo mashinostroit. lit-ry, 1956. 739 p. (MIRA 9:5) (Automobiles-Handbooks, manuals, etc.)(Transportation, Automotive)

Froblem of the best possible technical maintenance of atuomobiles. Trudy MADI no.19:127-127 '56. (MIRA 10:1)

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Moskva, Nauchno-tekhn.izd-vo evtoransp. lit-ry, 1957. 370 p.

(MIRA 11:3)

(Automobiles--Meintenance and repair)

LISIN, Aleksendr Sergeyevich; FEYGIN, Leonid Aleksendrovich; KRAMARENKO, G.V., kand.tekhn.nauk, retsenzent; KORNEICHEV, N.V., inzh., retsenzent; YERETSKIY, M.I., inzh., red.; ZUYEVA, N.K., tekhn.red.

[Practical laboratory work in automobile maintenance] Laboratornyi praktikum po tekhnicheskomu obsluzhivaniiu avtomobilei. Moskva, Nauchno-tekhn.izd-vo avtotransp. lit-ry, 1958. 119 p.

(MIRA 12:3)

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ALEKSANDROV, L.A.; AKSENOVA, Z.I.; ARTEM'IEV, S.P.; AFAHAS'IEV, L.L.;
BONSHTEYN, L.A.; BURKOV, M.S.; HUYANOV, V.A.; VELIKANOV, D.P.;
VERKHOVSKIY, I.A.; GOBERMAN, I.M.; DAVIDOVICH, L.N.; DEGITEREYA,
G.N.; ZEMSKOV, P.F.; KAIABUKHOV, F.V.; KOLESNIK, P.A.; KOEHIN,
A.P.; KRAMAREBKO, G.V.; KHUZE, I.L.; KURSHEV, A.N.; OSTROVSKIY,
N.B.; PASHINA, S.N.; SEMIKIN, N.V.; TARANOV, A.T.; TIKHOMIROV,
A.K.; ULITEKIY, P.S.; USHAKOV, B.P.; FILIPPOV, V.K.; CHERNYAVSKIY,
L.M.; CHUDINOV, A.A.; SHUPLYAKOV, S.I.; TIKHOMIROV, N.N.

Petr Valerianovich Kaniovskii; obituary. Avt.transp. 37
no.4:57 Ap '59. (MIRA 13:6)

(Kaniovskii, Petr Valerianovich, 1881-1959)
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BRONSHTKYN, L.A., dotsent; AFANAS'YRV, L.L., dotsent, BASH, M.S., dotsent; VLASKO, Yu.M., inzh.; ZEMSKOV, P.F., inzh.; KRAMARENKO, G.V., dotsent; LEYDERMAN, S.R., dotsent; LIV'YANT Ya.A., ispoln.obyezannosti dotsenta; LYUBINSKIY, N.M., inzh.; NAYDENOV, B.F., inzh.; FINKKI, SHTEYN, A.L., inzh.; KHROMOV, A.A., inzh.; CHUDINOV, A.A., inzh.; COBERMAN, I.M., red.; GALAKTIONOVA, Ye.N., tekhn.red.; DONSKAYA, G.D., tekhn.red.

[Contralized automotive freight haulage] TSentralizovannye perevozki gruzov avtomobil'nym transportom. Pod obshchei red. I.M. Gobermana. Moskva, Mauchno-tekhn.izd-vo M-va avtomobil'nogo transporta i shosseinykh dorog RSFSR, 1960. 206 p. (MIRA 13:9)

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1. Moscow. Avtomobil'no-dorozhnyy institut. (Transportation, Automotive)

BRONSHTEYN, L.A., kend.tekhn.nauk; BRUSYANTSEV, N.V., kand.tekhn.nauk; GRECHINSKAYA, L.T., inzh.; GROZOVSKIY, T.S., kand.tekhn.nauk; KRAMARENKO, G.V., kend.tekhn.nauk; KRICHEVSKIY, Z.A., inzh.; LEVIN, D.M., kand.tekhn.nauk [deceased]. Prinimali uchastiye: DEGTEREV, G.N., kand.tekhn.nauk; SHEYNIN, A.M., kand.tekhn.nauk; SHLIPPE, I.S., kand.tekhn.nauk; NAYDENOV, B.F., inzh. AFANAS'YEV, L.L., kand.tekhn.nauk, red.; VASIL'YEVA, I.A., red.izd-va; UVAROVA, A.F., tekhn.red.

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[Mechanization of leading and unloading operations in transporting agricultural loads] Nekhanizatsiia pogruzochno-razgruzochnykh rabot pri perevozkakh sel'skokhoziaistvennykh gruzov. Pod red. G.V.Kramarenko. Moskva, Nauchno-tekhn. izd-vo M-va avto-mobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 286 p. (MIRA 15:2)

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# KRAMARENKO, G.V.

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BABKOV, V.F.; BRONSHTEYN, L.A.; EURKOV, M.S.; EURYANOV, V.A..;

VARSHAVSKIY, I.L.; VELIKANOV, D.P.; VOINOV, A.N.; VYKUBOV, D.N.;

DORMIDONTOV, A.V.; D'YACHKOV, A.K.; YEFREMOV, V.V.; ZHABIN, V.M.;

ZELENKOV, G.I.; KALABUKHOV, F.V.; KALISH, G.G.; KRAMARENKO, G.V.;

KRASIKOV, S.M.; LAKHTIN, YU.M.; MIKULIN, A.A., ORLIN, A.S.; OSTROVSKIY,
N.B.; OSTROVTSOV, A.N.; RUBETS, D.A.; STEPANOV, YU.A.; STEPHKIN, B.S.;

KHACHATUROV, A.A.; KHOVAKH, M.S.; CHAROMSKIY, A.D.; SHARAPOV, K.A.

Nikolai Romemovich Briling; obituary. Avt.transp. 39 no.4:57

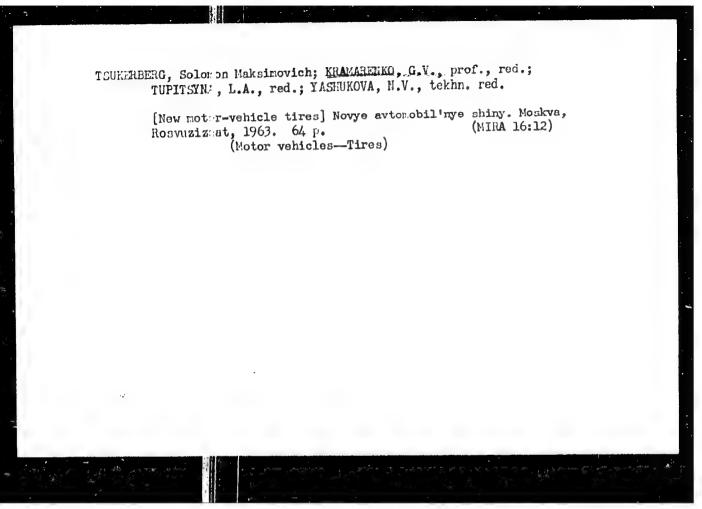
Ap '61.

(Briling, Nikolai Romanovich, 1876-1961)

KRAMARENKO, Georgi: Vasil'yevich, prof.; ILARIONOV, V.A., red.;
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[Servicing materials for motor vehicles] Avtomobil'nye ekspluataisionnye materialy. Moskva, Transport, 1965. 268 p. (MIRA 18:4)

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G.V., pref., doktor tekhn. nauk, red.; YAKOVLEV,G.N.,red.

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Extering the longevity and the operating dependability of the 8DR 43/61 engines. Mor. flot. 24 no.11:28-30 N 164.

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KRAMARENKO, 1.A., inzhener (Dmeprepetrevsk); LYASHENKO, Ya.T.(Dmeprepetrevsk).

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Ap '56. (Railreads--Freight cars) (NLRA 9:7)

RRAMARENKO, I.A., inzh. (Dnepropetrovsk)

Brors in propaganda about safety techniques. Zhel.dor.transp.
41 no.3:95-96 Mr '59. (MIRA 12:6)

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-111-

PREVARSKAYA, A.D., kand. med. nauk; KRAMARE!KO, I.B., kand. med. nauk

Dai y schedule for adolescents combining work with study in the evening school. Gig. sanit. 28 no.2:32-35 \*63 (MIRA 17:2)

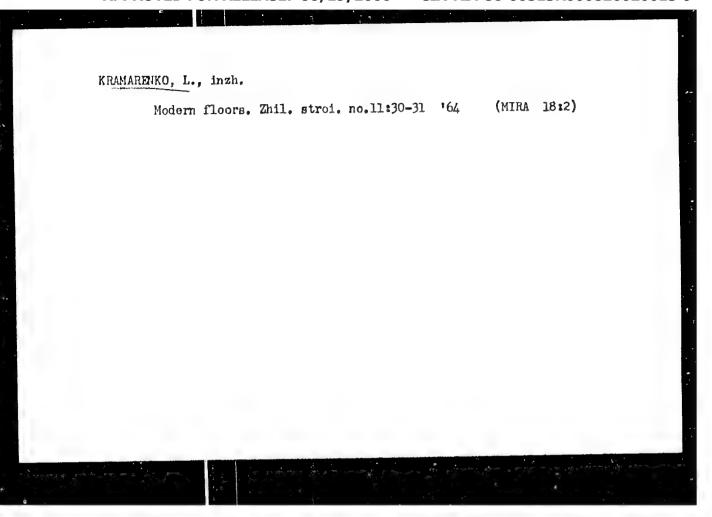
1. Iz Kiyevksogo nauchno-issledovateliskogo instituta gigiyeny truca i professionalinykh zabolevaniy.

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Changes in the physical development of employed adolescents, and students at industrial training schools and trade schools in Kiev. Vrach, delo no.81839-841 Ag 158 (MIRA 11:8)

1. Kiyevakiy institut gigiyeny truda i professional nykh zabolevaniy. (KINY--CHILDREH--GROWTH)

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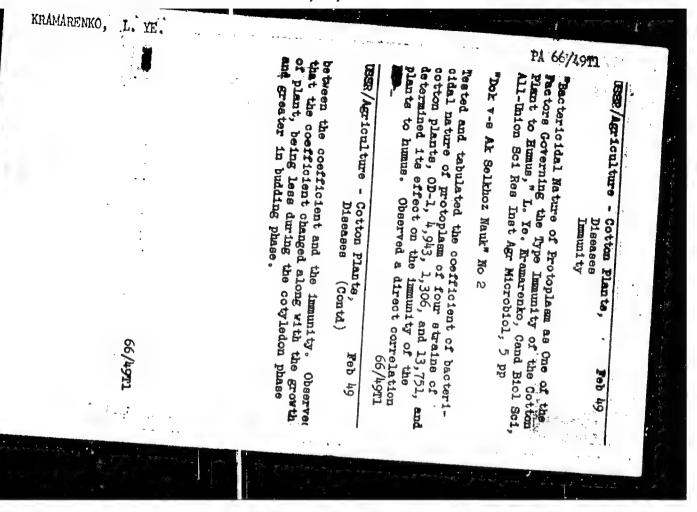
USPENSKIY, Boris Petrovich; KRAMARERKO, Leonid Ivanovich, retsenzent; TELEGIR, Pavel Andreyevich, retsenzent; KOVALEVA Z.G., red.

[Shaped, welded steel parts; ordinates for pattern layout] Svarnye :tal'nye fasonnye chasti; ordinaty dlia raskroia shablono. Khar'kov, Izd-vo Khar'kovskogo univ., 1964. 102 p. (MIRA 17:9)

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- 1. KRAMARENKO, L. P., Prof.: KOBYLYANSKIY, A. D., Eng.
- 2. USSR (600)
- 4. Hydraulic Rams
- 7. UIZh hydraulic ram. Sov.zootekh. 7 no. 11 1952

9. Monthly List of Russian / ccessions, Library of Congress, February 1953, Unclassified.



USSR/Microbiology - General Microbiology.

F-1

Abs Jour

: Ref Zhur - Biol., No 12, 1958, 52727

Author

Kramarenko, L.Ye.

List

: All-Union Scientific-Research Geological Institute.

Title

The Composition and Distribution of Microorganisms in Underground Waters and Their Significance in Prospecting.

Orig Pub

: Materialy Vses. n.-i. gool. in-ta, 1956, No 18, 93-115.

Abstract

In underground waters of natural-gas bearing districts of the Second Baku, Fergan depression and natural-gas bearing regions of the Leningrad district and Estonial SSR, sulfate redicing and denitrifying bacteria are found, bacteria decomposing naphthenic acids, carbohydrates, protein compounds, and which oxidize paraffin. The distribution of bacteria depends on the salt and gas composition of underground waters, on conditions of their occurence, and

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Abs Jour : Ref Zhur - Biol., No 12, 1958, 52727

relation to the oil-bearing strata. The underground waters of open structures contain the richest acrobic and anaerobic microflora both as to numbers and composition. In underground waters of semi-closed structures, chiefly sulfate meducing bacteria develop; in waters of closed structures there are few bacteria. However, quantitative and qualitative indices of bacterial distribution are insufficient for prospecting purposes. It is also necessary to take into consideration the specificity of physiological properties produced under natural conditions. It is established that the prospecting bacteria are those sulfate reducing bacteria which decompose the higher hydrocarbons  $(gH_{2O})$ . -- L.D. Shaforostova

BELYAKOVA, Ye.ye.; REZNIKOV, A.A.; KRAMARENKO, L.Ye.; NECHAYEVA, A.A.; KRONIDOVA, T.F.; ZAYTSEV, I.K., red.; ENTIN, M.L., red. izd-va; HY!OVA, V.V., tekhn. red.

[Geochemical method of searching for ore deposits in arid and semiarid regions] Gidrokhimicheskii metod poiskov rudnykh mestorozhd mii v aridnykh i poluaridnykh oblastiakh.
[By] E.E.Beliaktva i dr. Moskva, Gosgeoltekhizdat, 1962.
266 p. (MIRA 15:9)

(Geochemical prospecting)

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Reflect of amino acids on unconditioned interoceptive reflexes. Report No.1: Relationship between central and peripheral segments in interoceptive reflex mechanisms. Biul. eksp. biol. med. 47 no.1:9-14 Ja 159.

(MIRA 12:3)

1. Iz laboratorii obshchey fiziologii Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V. N. Chernigovskiy) AMN SSSR, Moskva, Predstavlena deystvitel'nym chlenom AMN SSSR V. N. Chernigovskim.

unconditioned, eff. of amino acids, center peripheries relationships in interoceptive reflex mechanisms (Rus)) (AMINO ACIDS, effects.

ca unconditioned reflexes, center peripheries relationsips in interoceptive reflex mechanisms (Rus))

### "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020013-9

Bacterial bioceneses in underground waters of some classal deposits and their geological significance. Mikrobiologica 31 no.4:694-701 J1-Ag '62. (NIRA 18:3)

1. Vsesoyuznyy nauchno-issletowatel'skiy geologicaeskiy institut, Leningrad.

SMOL'NIKOV, V. P.; STEFANYAN, Ye. P.; KUPRIYANOV, S. S.; KRAMARENKO, L.

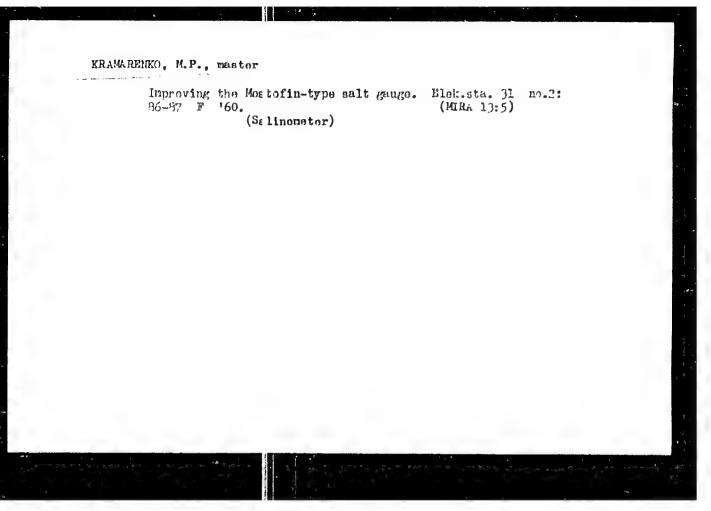
Inversion of the symptomatology in curarization. Eksper. khir. i anest. no.2:62-66 162. (MIRA 15:6)

1. Iz laboratorii anesteziologii (zav. - kandidat meditsinskikh nauk V. P. Smol'rikov) i laboratorii biokhimii (zav. - doktor biologicheskikh rauk Ye. P. Stepanyan) Instituta grudnoy khirurgii (dir. - prof. S. A. Kolesnikov, nauchnyy rukovoditel - akad. A. N. Bakulev) AN SSSR,

(MUSCLE RELAXANTS)

BASKOV, Ye.A.; DUTOVA, Ye.N.; KRAMAKENKO, L.Ye.

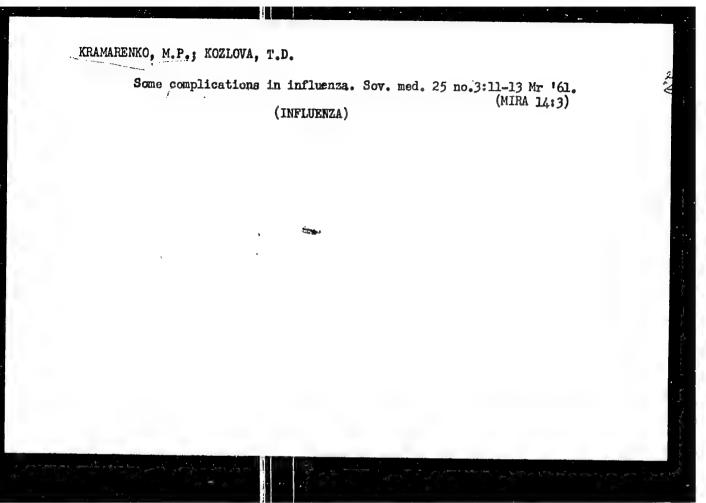
Microflora of underground waters in the southeastern part of the Siberian Platform. Inform.sbor.VSEGEI no.56:101-108 '62. (MIRA 17:1)



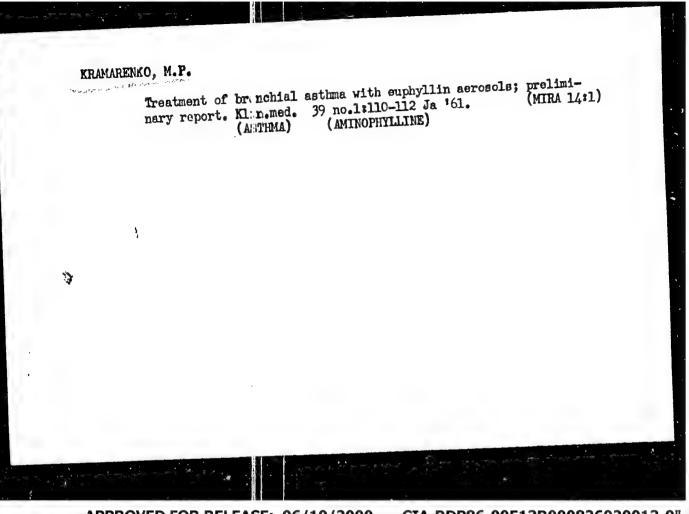
KRAMARENKO, M. P., polkovnik meditsinskoy sluzhby; GIKALOV, G. S., polkovnik meditsinskoy sluzhby; LESHCHINSKAYA, R. G.

Treatment of patients with rheumatic fever with hormones in combination with other substances. Voen.-med. zhur. no.12: 26-28 D '61. (MIRA 15:7)

(RHEUMATIC FEVER) (ADRENOCORTICAL HORMONES)



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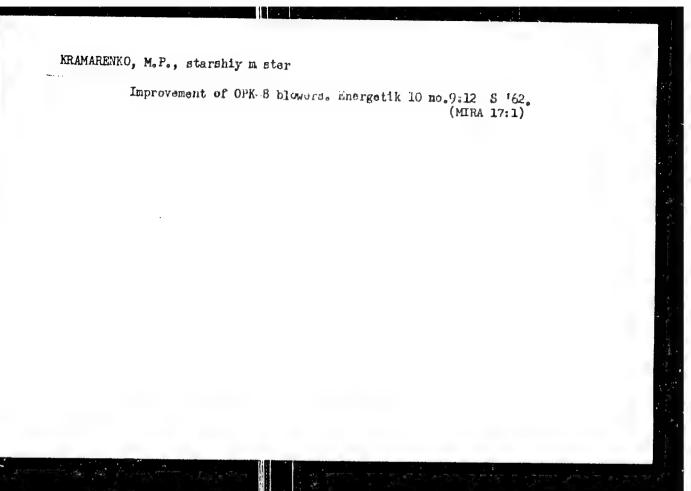
KRAMARENKO, M.P.

М. 11. Крамарсько защитил 5 VI 1900 г. в Совете Военно-медицинской ордена Ленина академии имени С. М. Киј она (Ленинград) диссертацию на тему «Клиника аямблиоза у вэрослых людей».

Лямблиоз — самостоятельное : нболевание, имеет своего возбудителя, клинические проявления и специфическую химнотерапию. Иногда лямблиоз наблюдается и в качестве вторичного заболевани і, в частности, осложняющего бактериальную дизентерию.

Candidate of Medical Sciences

Dissertations approved by the ligher Attestation Commission in January and February of 1961. Terap. arkh. no. 6:117-121 '61



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REGISTRENSO, N.K.

Organization of rur 1 water supply in Staveopol Territory.
Gidr. i mel. 17 no. 432-35 Je 165. (CMTA 18:7)

1. Yuzhnyy nauchno- sslejovatel skiy institut gidrotekhniki
i melicratsii.

ACCESSION NR: AP4032879

8/0051/64/016/004/0712/0713

AUTHOR: Avdeyenko, A. A.; Akopov, V. M.; Kramarenko, N. L.; Naboykin, Yu. V.; Shklyarevskiy, I. N.

TITLE: Concerning measurement in high reflection coefficients

SOURCE: Optika i spektroskopiya v.16, no.4, 1964, 712-713

TOPIC TAGS: reflection coefficient, reflection coefficient measurement, mirror, silver mirror

ABSTRACT: In connection with designing interference instruments (for example, Fabry-Perot etalons) and lasers it is essential to know the reflection coefficient of the mirror components, and the higher the coefficient the more important is accuracy of the measurement result. In the present paper there is proposed a procedure and setup, based on multiple reflection, designed for accurate measurement of the reflection coefficients of mirrors with a high coefficient. The requisite evaluation formulas for two-fold and eight fold reflection (the latter was employed by the authors) are adduced. A diagram of the setup is shown; it consists essentially of a collimated source, a beam splitting plate; and an appropriate photocell with a

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ACCESSION NR; AP4032878

frosted glass window. The setup at 1 procedure were used to determine the reflection coefficients of three silver mirrow, prepared by simultaneous vacuum evaporation, in 10.4%. Orig. art.has: 3 formulus, 2 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 26Ju163

FIG. REP SOV: 001

CTMER: 003

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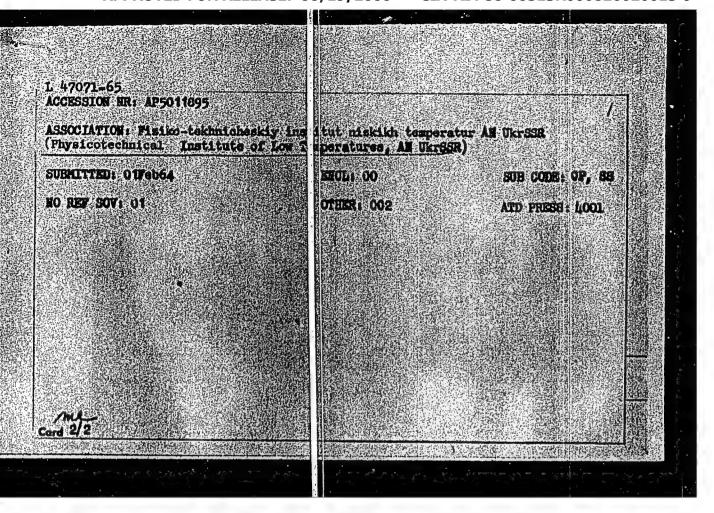
L 04565-67 EWT(1)/EWT(#)/EWF(e)/HEGUE)-2/F/EWF(t)/ELI/EWF(k)
32449 GG/WH SOURCE CODE: UR/0368/66/005/003/0387/0388 ACC NR: AP6032449 AUTHOR: Berzing, E. G.; Kramarenko, N. L.; Naboykin, Yu. V. ORG: none TITLE: Multilayer dielectric mirrors for lasers, based on lead oxide and cryolite SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 3, 1966, 387-388 TOPIC TAGS: laser optics, resonator Libror, dielectric mirror, lead oxide, cryolite, ABSTRACT: This is a continuation of earlier work (PTE, no. 2, 189, 1965), where it is indicated that dielectric mirrors made with lead oxide as a base offer certain advantages over the customarily used mirrors with ZnS, because the vacuum need not be so high and the lead oxide evaporates at a lower temperature. The authors report that they produced a large number of mirrors based on lead oxide and cryolite for different spectral regions and with different numbers of layers, and found their reflection coefficients to be higher than those with ZnS. Prolonged tests with ruby and neodymium-glass lasers have shown such mirrors to be suitable in lasers with low output energy (on the order of 10 J). The strength of 13-layer mirrors was tested by a procedure similar to that described by A. M. Bouch-Bruyevich et al. (ZhPS v. 1, 265, 1964). The tests show that the glass substrate can withstand an energy density up to 300 J/cm2, and that the strength is strongly influenced by the cleanliness of the glass prior to deposition of the dielectric layers. It is concluded that once a suitable coating technology is developed, the lead-oxide mirrors will prove to be just as strong as Card 1/2 UDC: 535.31

ose usi:	ng ZnS,	and the ease	of their n	anufacture a	and high	er reflecti	On coefficien	nt.
11 then	make t	heir use in 1	asers prefe	rable. Orig	g. art.	has: 1 tab	le.	
B CODE:	20/	SUBM DATE:	05Ju165/	ORIG REF:	003/	OTH REF:	002 / ATD PF	RESS:
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d 2/2	vmb					* *		

AVDEYENKO, A.A.; AKOPOV, V.M.; ERAMARENKO, N.L.; NABOYKIN, Yu.V.; SHKLYAREVSKIY, I.N.

Measurement of high reflection coefficients. Opt. i spektr. 16 no. 4:712-713 Ap '64. (MIRA 17:5)

1 47071-65 EWG(:)/EWP(e)/EWP(m)/ Ps-4 IVP(d) JD/WH ACCESSION NR: AP5011895	UR/0120/65/000/002/0189/190 2/
AUTHOR: <u>Naboykin</u> ; It. V.; Kramarenko,  TITLE: Interference sirrors with inte	
ABSTRACT: Preparation of color-selecti	selective mirror, dichroic mirror, lead layer mirror, mirror coating,
maintaining a high (10% torr) vacuum is reported to substitute PhO (with relayer mirror coatings. These results With 2 = 600 m µ s	5 Layers:Pb0 7 Layers:Zn3 and oryolite and oryolite
Reflection * Transmission * Absorption * Orig. art. has: 2 figures and 1 table Cord 1/2	72.9 16.3 4.5 5.4 (03)



L 43757-66 EWP(e)
ACC NR. AP6030711 EWP(e)/EWT(m) SOURCE CODE: UR/0368/66/005/002/0153/015/ 58 Naboykin, Yu. V.; Kramirenko, N. L.; Akopov, V. M. AUTHOR: B ORG: none Investigation of multilayer dielectric coatings made from lead monoxide and cryolite Zhurnal prikladnoy speltroskopii, v. 5, no. 2, 1966, 153-157 TOPIC TAGS: light filter, optic filter, ceramic film, metal film, dielectric layer, dielectric costing, laser R and D, optical resonator ABSTRACT: Laser engineering requires coatings possessing high reflection coefficients, good stability, and resistance to high-density electromagnetic radiation. Tracitionally, the dielectric mirrors used in lasers have been made from z:nc sulfide and cryolite. The present article deals with an investigation of multilayer dielectric mirrors made from lead monoxide and cry lite with a view to determining whether such mirrors, which are easier to produce than the zinc sulfide type, can be successfully employed in lasers. Specially purified lead monoxide was used in producing ayers with minimum absorption. The optical characteristics (reflec ion, transmission, and absorption-R, T, and A, respectively) of the lirrors were then measured by an instal-UDC: 535.345.6:666.246 **Card** 1/3

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L 43757-66

ACC NR: AP6030711

Table 1. Optical characteristics of interference light filters

Type of filter	λ, Å	Te. %	Halfwidth of light filter
Glass .HLHLH-2-2L-HLHLH-air	5300	75,0	30
Class-H'LH'LH'LH'-2L- H'LH'LH'LH'-glass	5200	75,0	40

- Explanation: 1) H IbO layer, H' ZnS layer, L - cryolite layer;
  - 2) the thickness of all layers is equal to  $\lambda/4$ .

lation consisting of a monochrorator, an optical device, and a photomultiplier with a galvanometer. A nine-layer mirror with maximum reflection at 5780 Å had the following parameters: R = 97.0%, T = 1.0%, and A = 2.0%. Interference fil ers prepared from lead monoxide and cryolite were fully as good as eptical filters made from zinc sulfide and cryolite. The optical characteristics of an eleven-layer optical filter made from lead monoxide and cryolite and a fifteen-layer filter made from zinc sulfide and cryo ite are compared in Table 1. For

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CIA-RDP86-00513R000826020013-9"

ACC NR: AP6030711

similar filter parameters the lead monoxide-cryolite filter requires fewer layers than the zinc sulfide-cryolite filter. The layers improve their characteristics with time. Thus, the optical characteristics of an eleven-layer light filter two weeks after being removed from vacuum had improved as follows: transmission increased to the maximum, absorption decreased, and reflection remained constant. Orig. art. has: 3 figures and 1 tabla.

SUB CODE: 20/ SUBM DATE: 28F(b65/ ORIG REF: 004/ OTH REF: 002 ATD PRESS: 5075

Card 3/3 bla

L 46018-66 EVT(1)/EEC(k)-2/T/EWP(k) IJP(c) WG/3D
ACC NR: AT6015137 SOUR DE CODE: UR/0000/66/000/000/0144/0149
AUTHOR: Kramarenko, N. L.; Mesh:heryakov, A. V.; Naboykin, Yu. V.; Ratner, A. M.; Rom-Krichevskaya, I A.
ORG: Physico-Technical Institute of 1 ow Temperatures, AN UkrSSR (Fiziko- tekhnicheskiy institut nizkikh temperatur AN UkrSSR)
TITLE: Investigation of losses and loss-associated characteristics of laser
SOURCE: Respublikanskiy seminar po kvantovoy elektronike. Kvantovaya elektronika (Quantum electronics); trudy seminara. Kiev, Naukova dumka, 1966, 144-149
TOPIC TAGS: solid state laser, laser R and D , LASER RADIATION
ABSTRACT: A method for experimental determination of the radiation loss in a solid-state-laser resonator is suggested. A 4-level system is considered. The loss is determined, a plot of output energy vs. mirror transmissivity is constructed, and estimated and experimental results are compared for a Nd-glass
Card 1/2

L 46018-66

ACC NR: AT6015137

specimen. All quantities that enter a total-radiation loss formula, except for dispersion loss, are directly measureable. Thus, the problem is reduced to determining the dispersion loss. The latter is derived from the experimental data on the effect of the first-mirror transmissivity upon the threshold pumping energy. The knowledge of the resonator radiation loss permits determining the optical transmissivity of mirrors. Orig. art. has: 4 figures and 16 formulas.

SUB CODE: 20 / SUBM DATE: 12Feb66 / ORIG REF: 004 / OTH REF: 002

Card 2/2fv

CIA-RDP86-00513R000826020013-9" APPROVED FOR RELEASE: 06/19/2000

KRAMARENKO, N.M.

"The Growth and Development of Young Steers of the Kostroma Breed of Large Horned Cattle Under the Conditions of Their Acclimatization in the Breeding Farm "Venets Zarya" in Krasmodarskly Kray"; dissertation for the degree of Cand: date of Agricultural Sciences (awarded by the Timiryazav Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhu zysystvennoy Akademii, Hoscow, No. 2, 1963, pp 232-236)

KKAMARENKO, Nikolay Mikhaylovich, nauchn. sotr., kand. sel'khoz. nauk; SEMENOV, Nikolay Petrovich, nauchn. sotr., kand. sel'khoz. nauk; ERNET, Lev Konstantinovich; FEFERMAN, A.Ye., red.

[Practices in breeding work with black and white cattle]
Opyt plemennoi raboty s krupnym rogatym skotom Chernopestroi porody. Moskva, Mossel'khozizdat, 1965. 78 p.
(MIRA 18:8)

1. Vsesoyuznyy nauchno-is:ledovatel'skiy institut zhi-votnovodstva (for Kramare:ko; Semenov).

KRAMAPTIME, N.N.

Todkemennaya Tungucka Valley - Trilolites

New trilobites from the Silurian of the Lodkamenneya Tunguska River Casia. Dokl. AN SSSR F6 No. 2, 1952.

Monthly List of Russian Accessions, Library of Concress, December 1952, Unclassified.

### KRAMARENKO, N.M.

A new Trilobite of Monorak idae from Ordovician strata of the Sibirian Platform. Dokl. A | SSER 109 no.5:1030-1031 Ag. 1956. (MERA 9:10)

1. Paleontologicheskiy institut Akademii nauk SSSR. Predstavleno Akademikom S.I. Mironovym.

(Siberia-Trilobites)

KRAMARENKO, N.N.; SHIMANSKIY, V.N.; FLEROV, K.K.

All-Union Paleontological Conference on Problems in Systematics and Phylogeny of Fossil Animals. Paleont. zhur. no.2:134-139 '59.

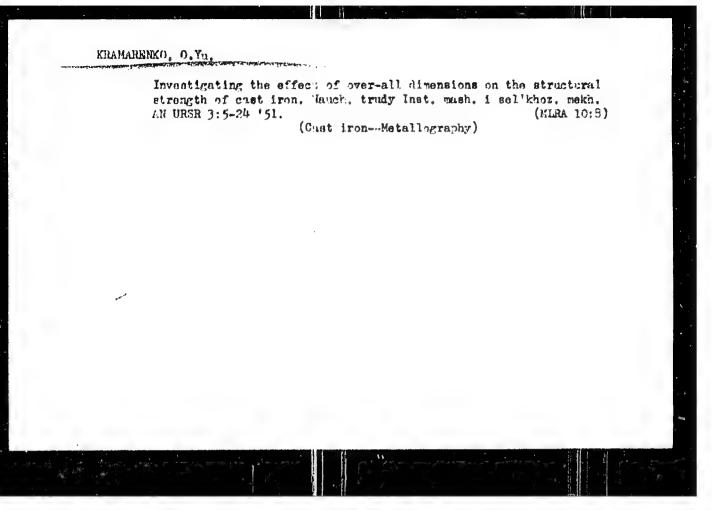
(MIRA 13:1)

(Palmontology--Congresses)

KRAMARENKO, N.N.

A new species of Cyclicae (Grustacea) from lower Permian deposits of the Ural Mountain region. Paleont. zhur. no.2:86-89 '61. (MIRA 14:6)

1. Paleontologicheski; institut AN SSSR. (iim Valley--Copepoda, Fossil)



Investigating strasses in fraces of tructor-drawn seeders, Nauch.
trudy Inst. mash. i sel'king. masks. AN URSE 3:95-12° '51.
(Drill (Agricultural implement)) (MLRA 10:8)

SOV/137-57-6-10898

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 214 (USSR)

Serensen, S.V., Kramarenko, O.Yu. AUTHORS:

Structural Strength of Cast Iron Relative to its Application in Engine TITLE:

Crankshafts (Konstruktsionnaya prochnost' chuguna v svyazi s yego

primeneniyem dlya kolenchatykh valov dvigateley)

V sb.: Vysokoprochryye chuguny. Kiyev, Mashgiz, 1954, pp PERIODICAL:

207-225

Curves of static and fatigue strength for 3 types of cast iron, ABSTRACT:

namely, ordinary gray (GI), inoculated (II), and high-strength nodular (HI), are presented. The  $\sigma_{compr}/\sigma_{b}$  ratio for GI is 3.9-4.2, for HI 3.1-3.2. The ratio of  $\sigma_b$  under torsion to  $\sigma_b$  and the  $\sigma_{bi}/\sigma_b$  ratio decline as static strength rises. The residual angle of twist rises between 2.5 and 10 times as one proceeds from II to HI with pearlitic and ferritic structure. HI is distinguished by elevated sensitivity to stress concentration over that of GI and II. The resistance of iron to alternate loading rises with its static strength. Values are adduced

for  $\sigma_{\mathbf{w}}$  under symmetrical bending, twisting, and tension-and-

Card 1/2

SOV/137-57-6-10898

Structural Strength of Cast Iron R lative to its Application in Engine Crankshafts

compression, as well as the ratio: between  $\sigma_w$  and  $\sigma_{bp}$  for the 3 types of iron. The cyclic ductility of HI is less than that of GI by 80 to 85 percent. Refinements are presented in the field of resistance of iron to cyclic overloads and the role of adaptation to stresses lower than  $\sigma_w$ . Data are presented on the fatigue resistance of steel and iron crank hafts. While the latter are low in strength they have greater fatigue resistance to torsion than do steel ones.

Yu.R.

Card 2/2

# WHYMERENO, 9.; SLUCKAIA, 9. "Bending Vibrations Of Tractor Egine Crankshafts as a Factor of Their Strength. Tr. From the Russian." p. 603 (STROLLERNSTVI. Vol. 4, No. 11, Nov. 195h; Praha, Czech.) So: Monthly List of East Europe in Accessions, (EEAL), LC, Vol. 4, No. 4, April 1955, Uncl..

USSR/ Engineering - Engine tests Card 1/1 : Pub. 128 - 6/38 Kramarenko, O. YU., and Slutskaya, O. B. Authors The measurement of stresses in the crankshaft of the D-54 tractor Title engine arising from the lick of concentricity of its bearings : Vest. mash. 9, 28-32, Sep 1954 Periodical Operational tests were conducted on a four-throw crankshaft with Abstract counter weights supported on five sleeve-bearings to determine the influence of eccentricity in the supporting bearings by oscillographic recording of stresses over the cranking angle. Three USSR references (1953-1954). Tables; grayhs; diagram; drawing. Institution: Submitted 10 JUN 55

Bending vibrations of engine crankshafts as a factor of their strength. Vest.mash.32 no.1:24-28 Ja '54. (MIRA 7:2)

1. Institut mashinovedenlya i sel'skokhozyaystvennoy mekhaniki Akademii nauk USSR. (Cranks and crankshafts)

### "APPROVED FOR RELEASE: 06/19/2000 CIA-

CIA-RDP86-00513R000826020013-9

GARF, Mikhail Ernestovich; KORSA (EVICH, Nikolay Ivanovich; KRAMARRINKO, Okeana Yur'yevna; SEREN SEL, Sergoy Vladiairevich; SLUTSKATA, Ol'ga Borisovna; KHARITC ISKIY, M.B., redaktor; KRYLOVSKATA, H.S. tekhnicheskiy redaktor.

[Strength ef tractor engine crankshafts; manual for calculations and tests] Prochnost' krlenchatykh valov traktornykh dvigatelei; rukovodstvo po raschetu i spytaniiu. Kiev, Izd-vo Akademii nauk USSR, 1955. 199 p.

(Cranks and crakshifts) (Tractors)

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GRIGOR'YEV, I.S. [Hryhor'iev, I.S.] [deceased]: YRAMARENKO, O.Yu.;

KULIKOVSKAYA, O.V. [Kun'kivs'k., O.V.]

Mechanical properties of cast iron with nodular graphite depending on its structure. Hauk. pratsi Inst. lyv. vyrob. AN URSR
8:118-128 '59. (MIRA 14:1)

(Cast iron-Metallography)

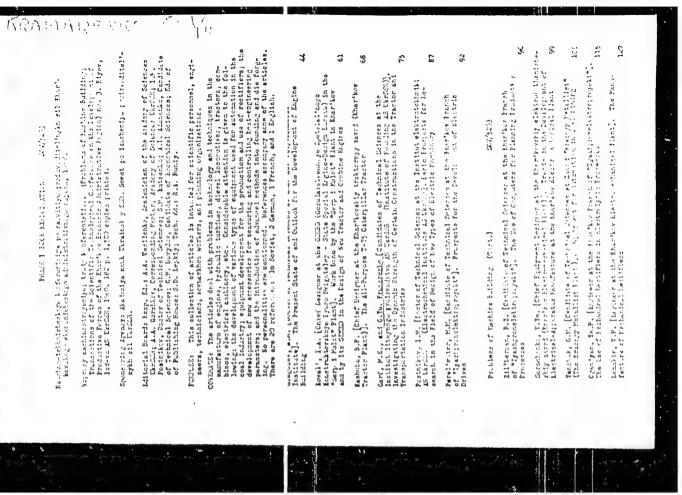
## "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020013-9

SERENSEN, S.V., akademik; KRAMURENKO, O.Yu., kand. tekhn. nauk.

Structural strength of nodular cast iron. Vest. mash. 39 no.1:
75-84 Ja '59. (MIRA 12:1)

1.AN USSR (for Serensen).

(Cast iron-Testing)



SERENSEN, S.V.; KRAMARENKO, O.Y..; KULIKOVSKAYA, O.V. [Kulykivs'ka, O.V.]

Machanical properties and structure of nodular iron. Nauk.pratsi
Inst.lyv.vyrob.AN URSR 9:51-65 '60. (MIRA 15:3)

(Cast iron--Motellography) (Hardness)

3

KRAMARENKO, O. YU.

PHASE I BOOK EXPLOITATION SOV/5940

Serensen, Sergey Vladimirovici, Academician, Academy of Sciences UkrSSR, Yevgeniy Georgiyevich Euglov, Mikhail Ernestovich Garf, Leonid Aleksandrovich Kozlov, Nikolay Ivanovich Korsakevich, Oksana Yuriyevia Kramarenko, and Oliga Borisovna Slutskaya

Prochnost'pri nestatsionarnyl h rezhimakh nagruzki (Strength Under Nonstationary Load: ng Conditions) Kiyev, Izd-vo AN UkrSSR, 1961. 294 p. 2000 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Otdeleniye tekhnichskikh nauk.

Ed. of Publishing House: O. M. Pechkovskaya; Tech. Ed.: V. Ye. Sklyarova..

PURPOSE: This book is intended for engineers of design bureaus, industrial laboratories, and testing stations, and for

Card 1/1

3

Strength Under Nonstationary (Cont.)

SOV/5940

members of scientific research institutes.

COVERACE: The book deals with problems connected with the study of the stress state and the strength of machine and construction parts under monstationary loads. Discussed are statistical methods of systematizing random alternating stress states, characteristics of experimental denating stress states, characteristics of experimental denating of the registering such stresses, and the recording of the results of faligue tests. Attention is given to the analysis of stresses induced by short-duration to the analysis of stresses induced by short-duration forces in elastic machine systems. The book is the result of work carried but by the Institut mashinovedeniys (Institute of Machine Science) AN UKCSSR [now the Institut liteynogo proitvodstva] and of the processing of published data. V. A. Grobov, Doctor of Technical Sciences, is mentioned as having assisted in the editing of this book. Each charter is accompanied by references, mostly Soviet.

Card 2/7

GORSHKOV, Andrey Andreyevich, doktor tekhn. nauk; VOLOSHCHENKO, Mikhail Vasil'yovich, kand. tekhn. nauk; DUBROV, Vasiliy Vladimirovich, kand. tekhn. nauk; KRAM RENKO, Oksana Yur'yevna, kand. tekhn. nauk; MIL'MAN, B.S., kand. tekhn. nauk, retsenzent; KLOCHNEV, N.I., kand. tekhn. nauk. retsenzent; TSYPIN, I.O., kand. tekhn. nauk, retsenzent; RIKHE'G, D.B., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Handbook on iron founding of high-strength pig iron] Spravochnik po izgotovlenii otlivok iz vysokoprochnogo chuguna. By A.A.Gorshkov i dr. Pod obshchei red. A.A.Gorshkova. Moskva, Mashgiz, 1961. 217 p. (MIRA 15:2)

1. Chlen-korrespondent ikademii nauk Ukrainskoy SSR (for Gorshkov).

(I:on founding)

BUGLOV, Ye.G. [Buhlov, IE4R.]; (ARF, M.Ye. [Harf, M.E.]; KRAMARENKO, O.Yu.

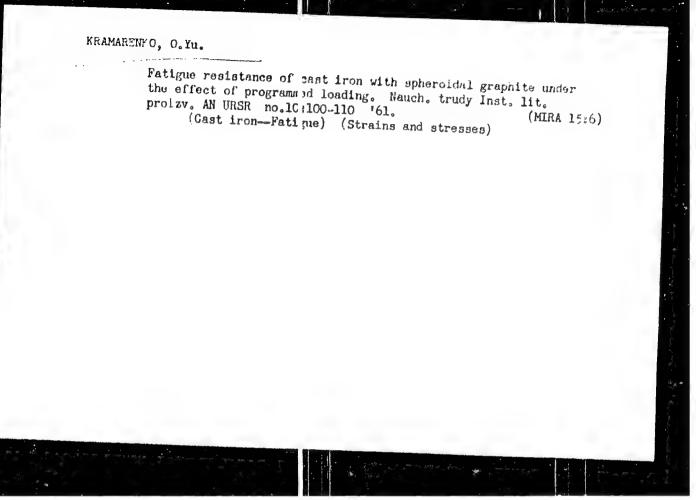
Coordination conference on the fatigue of metals, 1960.

Coordination conference on the fatigue of metals, 1960.

Dop. AN URSR no.8:1096-1101 '61. (MIRA 14:9)

(Metals—Fatigue)

## "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020013-9



## "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020013-9

Effect of stress concentration on the static strength of pear-litic cast iron with spheroidal graphite. Nauch, trudy Inst, lit. proizv. AN URSR no.10:120-125 '61. (MIRA 15:6) (Cast iron-Metallography)

\$/122/61/000/005/003/013 D221/D304

AUTHORS:

Serensen, S.V., Academician AS USSR, Kramarenko. O.

Yu., Candidate of Technical Sciences, and

kulikovskaya, U.V.

TITLE

kinematics of fatigue destruction of cast iron

containing spheroidal graphite

PERIODICAL: vestnik mashinostroyeniya, no. 5, 1961, 14 - 19

TEXT: The presence of spheroidal graphite in cast iron imparts a poculiar character to tatigue iestruction of the latter, compared to the similar process in steel. Study of this phenomenon was carried out with consideration of technology of its production, structural features and type of load. The tested material was produced in an electric furnace with additions of magnesium and ferrosilicate. Its composition was as follows: 3.14 - 3.34 % C; 2.30 - 2.58 % S1, 0.68 - 0.72 % Mn; 0.010 - 0.019 % S; 0.10 - 0.12 % P, and 0.05 - 0.052 % Mg. The cast iron was subject to annealing at 550-600°C during 4 hours. It contained a small quantity of ferrite on the

Card 1/8 --

S/122/61/000/005/003/013 D221/D304

Kinematics of fatigue destructhon ...

Card 2/8

fringe of graphite inclusions. Two structural variants were obtained through heat treatment: Pearlitic after normalization, and ferritic - due to annealing. Investigation of destruction was carried out on plain specimens by testing symmetrical bending and torsion. The surface of the specimen was observed with the use of a microscope. Metallographic study of destruction of individual structural components was also carried out microscopically. Patigue destruction of cast iron was tested at various levels of stressing. Appearance of damage on the surfact always begins with graphite inclusions, independently of the structure. Damage in the metallic base is also at spots where graphite is near the surface. Not all these cracks develop during fur ber experiments. The authors referred to cracks with a maximum length of U.25 mm as a first stage. The duration of this stage depends upon the level of stressing. The second stage is characterized by growth of one or more figures. Individual fissures converge in the direction of the weakest spots of the metallic matrix, and at the same time they grow at the surface and in depth, The rate of this increase depends upon stress and structure of cast iron. At a certain point there is a sharp change

S/122/61/000/005/003/013 D221/D304

Kinematics of fatigue destruction ...

Uard 3/3

in the above speed of growth which signifies the start of the third stage, when separate parts of cracks are united and form one or several main fatigue cracks. The working section of specimen is, therefore, reduced, stress is increased. and finally, the ultimate destruction takes place. Metallographic study established that the form of graphite is of great importance. Irregular shape promotes concentration of stresses in the matrix, and earlier creation of cracks, and apparently reduces the number of cycles required for destruction. During deformation of ferritic and pearlitic matrices around graphite inclusions, the latter are not subject to destrucmion. Destruction in ferrite is characterized by marked plastic de-Tormations and, the appearance of shear lines within the boundary of individual grains. Fatigue crack in ferritic cast iron takes place between graphite inclusions across the grains of ferrite as well as along its boundary. Quantitative analysis of experimental data allows several laws on the development of fatigue destruction of cast iron with spheroidal graphite to be deduced. An assumption was made that the largest crack characterizes the degree of damage. The length of it on surface was designated as  $l_m$ . The three stages

S/122/01/000/005/005/013 D221/D304

Kinematics of fatigue destruction ...

described above are plotted by the authors. Graphs of the increase in fatigue destruction in pearlitic and ferritic cast iron obtained with 10 - 15 specimens are plotted in Fig. 9. It is seen that increase of stress from 1.13 to 1.6 of the endurance limit results in a change of duration of individual stages as well as rise of rates of growth of destruction, v<sub>1</sub> and v<sub>2</sub>, in the II and III stages.

Curves showing destruction of three structural variants of cast iron and of steel 45 are also illustrated. The life of cast iron during these tests is mainly determined by the duration of stage II which increases with lower stresses. The relationship between speeds v<sub>1</sub> and v<sub>2</sub> and the level of stressing as well as the effect of structure on former is given graphically. Characteristics of stage III and the length of maximum crack at the instant of destruction are affected by the structure. Greatest length of crack is found with ferritic cast iron. A characteristic feature of fatigue destruction of cast iron with spheroidal graphite is the large amount of initial fatigue cracks, i (up to 80, of which one or two exhibit a further expansion (i<sub>m</sub>). The data allowed fatigue curves

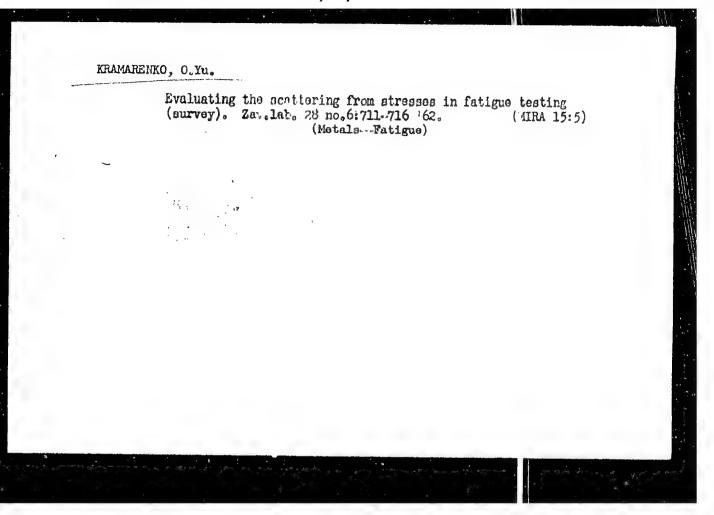
Card 4/6

S/122/61/000/005/003/013 Kinematics of fatigue destruction ... D221/D3(4

from the initial crack N1 to final destruction Nd to be plotted (Fig. 12). The presence of stress concentrations produces a substantial change in the course of development of fatigue destruction of cast iron with spheroidal graphite. The author draws the following conclusion: The discussed type of cast iron exhibits an early formation of fatigue damage which is characterized by three stages. Duration of individual stages and length of cracks depend upon level of stress and structure of metallic matrice. For components, where the early appearance of cracks is undesirable, a less plastic cast iron should be used, and having a pearlitic structure. There are 13 figures and 4 tables.

Card 5/8 .

# "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020013-9



KRAMARENKO, O.Yu.; KULIKOVSKAYA, O.V.

Effect of phosphorus on the fatigue resistance of pearlitic cast iron with spheroidal graphite. Nauch. trudy Inst. lit. proizv. AN URSR 11:95-101 '62. (MIRA 15:9)

(Cast iron-Fatigue)

KRAMARENKO, O.Yu.

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(Cast iron--Fatigue)

GOASHKOV, Andrey Andreyevich; ZATULOVSKIY, Sergey Semenovich, inzh.; RUDENKO, Nikolay Grigor'yevich, inzh.; VOLOSHCHENKO, Mikhail Vasil'yevich, kand. tekhn. nauk; KLIBUS, Vladimir Vasil'yevich, inzh.; LUZAN, Petr Petrovich, kand. tekhn. nauk; KRAMARENKO, Oksana Yur'yevna, kand. tekhn. nauk; KULIKOVSKAYA, Ol'ga Varfolomeyevna, inzh.; FILATOVA, T.A., red.

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161 p. (MIRA 17:11)

1. Akademiya nauk URSR, Kiev. Institut problem lit'ia.

2. Chlen-korrespondent AN Ukr.SSR (for Gorshkov).

### "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020013-9

KRAMARENKT P. R.

KRALARCHK), P. E. - "Controlling the m vement of ions and suspended particles in strong electric fields at atmospheric pressure". Noscow, 1955. Moscow State U Iseni M. V. Lomonosov. (Dissertation for degree of Camildate of Physicomathematical Sciences.)

Sh: Knizhnaya Letcois' No. 46, 12 November 195'. Moscow

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s/139/60/000/01/014/041 E032/E414

24,2400

Kramarenko, P.F.

**AUTHOR** 3 TITLE

Control of the Motion of Suspended Particles

Electric Fields and at Atmospheric Pressure

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1960, Nr 1, pp 77-79 (USSR)

ABSTRACT:

The present paper describes the results of experiments which show that it is possible to obtain reasonable concentrations (focusing and defocusing) of suspended particles under the action of an electric field and at atmospheric pressure. The apparatus shown schematically in Fig 1 was used to control the motion of suspended particles using an electric field. In Fig 1,

1 are disc electrodes. 2 is glass, 4 is an ebonite plate with a circular aperture, is a metal cylinder and 6 is an insulating support, A suitable potential difference is applied as shown, The glass cap 3 containing carbon dust having a dispersion of 0.1 to 20 µ was placed on the lower electrode. The thickness of the layer was about 1 mm.

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Control of the Motion of Suspended Particles in Strong Electric Fields and at Atmospheric Pressure

The cap was covered by the ebonite plate 4 potential difference of 15 kV was applied across the plates 1. The distance between these plates was 6.6 cm. A study was then made of the focusing properties of the cylinder 5 as a function of its height h and the potential applied to it. The deposits on the upper plate were examined with the aid of a photoelectric microphotometer. The results obtained are shown in Fig 2, in which the potential of the cylinder relative to the cathode is plotted along the vertical axi; (kV) and the diameter of the focused spot (cm) along the horizontal axis, with h as a parameter. As can be seen the focusing effect increases with the length of the cylinder. Fig 3 shows a similar plot with h constant (20 mm) and the diameter of the cylinder as a parameter. This graph shows that smaller diameters (Graph III) give better focusing up to a certain definite potential (7.5 kV). Experiments were also

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Control of the Motion of Suspended Particles in Strong Electric Fields and at Atmospheric Pressure

carried out to show the effect of the form of the cylinder on the focusing property. The results of these experiments are shown in Fig 4. Finally, a study was made of the effect of the dimensions o: the anode on the focusing properties. The results are shown in Fig 5. The general conclusion is that n all cases, the focusing and the spread of the particles depend on the height, the diameter and the form of the intermediate electrodes, as well as on their potential and the dimensions of the electrodes of the capacitor. The biggest effect is due to the edges of the focusing cylinders or cones. Experiments were also made with aluminium, iron, marble and glass dust. In all :ases it was found that focusing is possible. There are 5 figures and 8 references, 4 of which are Sovie; 2 German and 2 French.

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Control of the Motion of Suspended Particles in Strong Electric Fields and at Atmospheric Pressure

ASSOCIATION: Stavropol'skiy gosudarstvennyy mededitsinskiy institut (Stavropol' State Medical Institute)

SUBMITTED: February 23, 1959

Card 4/4

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